November 16, 2026

2026 CLM Tutorial

Welcome, Introduction, and Logistics

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CGD NSF NCAR



Welcome to the Mesa Laboratory



Reminder on UCAR Code of Conduct



If you have questions or issues, please contact: fair@ucar.edu or wwieder@ucar.edu

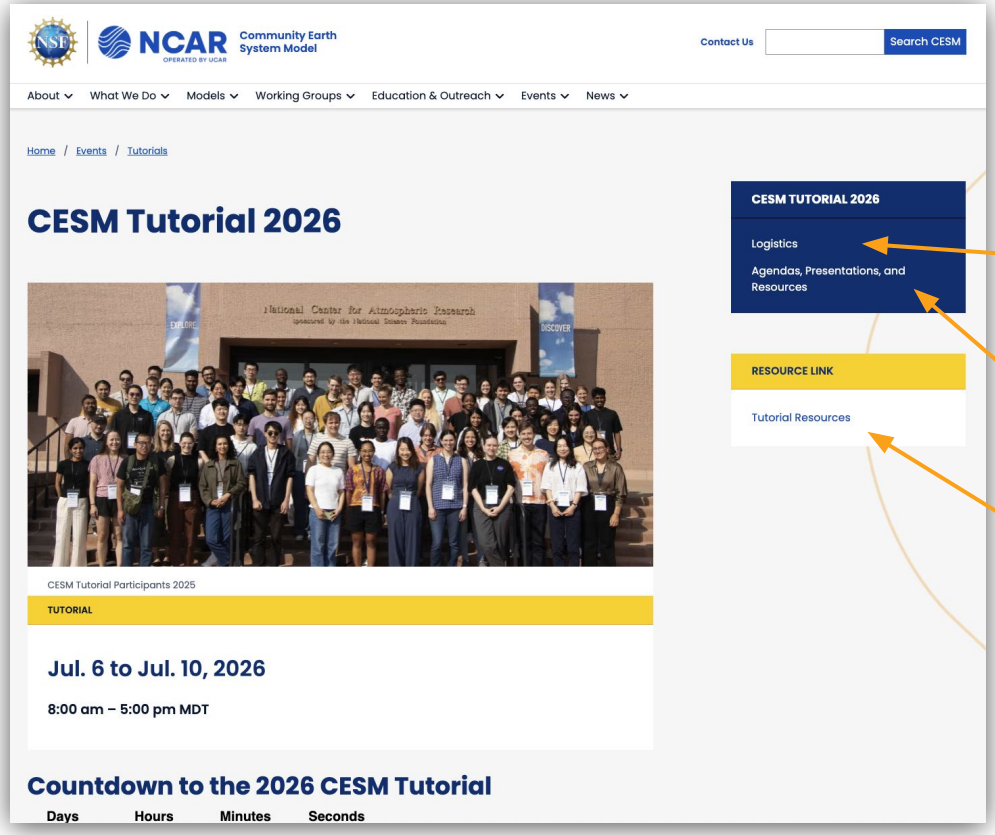
Tutorial Goals

The overarching goal of the tutorial is to introduce the science and practice of **using CLM as a research tool**. Lecture and practicals aim to link science and code by highlighting model assumptions and hypotheses.

As a result of attending the CLM Tutorial, attendees will:

- Gain a foundational scientific understanding of CLM and its features.
- Be able to run and modify the model and use the output.
- Have opportunities to network with peers and CLM scientists.
- Attain an understanding of High Performance Computing (HPC) needed for CLM.
- Perceive the tutorials to be an inclusive learning environment.

CLM Tutorial Website



https://www.cesm.ucar.edu/events/tutorials/clm

OR Search "clm tutorial 2026 ncar"

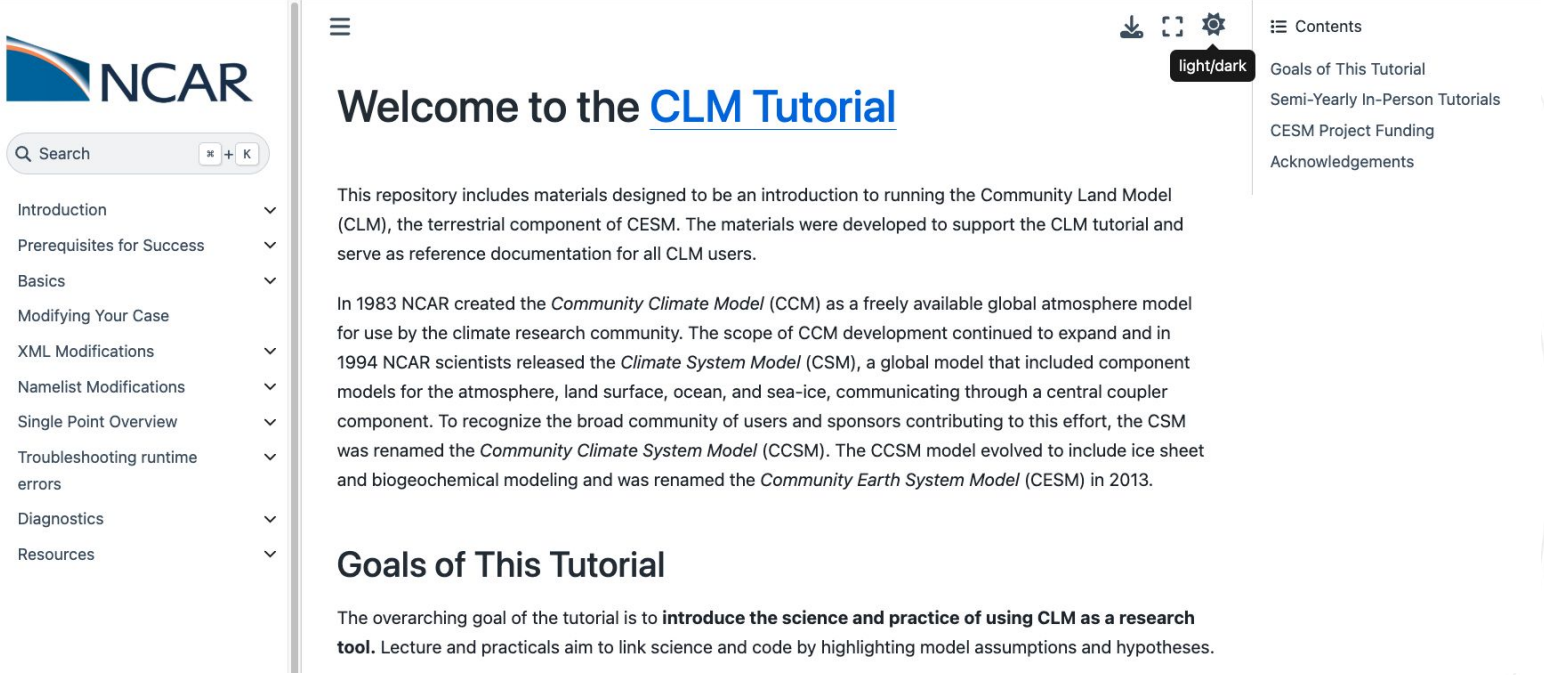
Additional info about logistics. photos, etc

agenda (including slides of lectures)

lab materials

Lab Materials

https://ncar.github.io/CLM-Tutorial/



Tutorial Agenda

- Lectures (Main Seminar Room)
  - Topical Lectures → information about how the core model components work
  - Specialized Lectures → HPC, Github, CLM-U, etc.

- Lab activities (Library)
  - Mon: CLM basics (compsets, including FATES)
  - Tues: Modifying your experimental design
  - Weds: Single point (supported towers & more)
  - Thurs: Diagnostics lab:

After today, you'll have a number of opportunities to explore different options in lab activities

Welcome to the Mesa Laboratory

- Lunch (Mesa Lab cafeteria)
  - Food is available in the Mesa Lab cafeteria, including vegetarian and gluten free options
  - You are responsible for paying for your own lunch
  - Stagger lunchtime if possible, beginning at 11:30 am
- Meet an expert (optional) (breakout areas)
  - Lunch on Tuesday and Wednesday
  - Casual conversation with a CLM expert with no fixed agenda
  - You need to fill the form (with your 1st/2nd/3rd choice)
  - We will **assign you to one expert** to ensure reasonably sized groups
- Mesa Lab Exhibit Tours (optional)
  - Public tours on Weds. Meet at 12:00pm at the front entrance
  - You can also explore the exhibits on your own

Typical Day

Morning (starts at 8:15am)
- Lectures (Main Seminar Room)
- Lab (Library)
- Light snacks and coffee/tea (in front of the Main Seminar Room and the Outer Damon in the afternoon)
  - *Only cups with lids allowed in the Main Seminar Room*
  - *Reduce waste and recycle cans/bottles*

Lunch (12:00 - 1:15 pm)
- Eat/Socialize (Cafeteria)
- Meet an expert (Various locations)
- Mesa Lab exhibit (Hallway)

Afternoon (ends at 4:35pm)
- Lectures (Main Seminar Room)
- Lab (Library)
- Light snacks (Damon Room)
- Daily check-in (Main Seminar Room)

Daily Check-in

At the end of each day, we will reconvene in the main seminar room for the daily check-in:

- we will discuss what went well and what didn't

On the last day, there will be a general survey.

The survey is important for us to improve the content of the tutorial. Please fill out the survey. Thanks in advance.

If you complete the survey, you will be entered into a raffle & could win cool prizes!

Ask Freely! There are no stupid questions

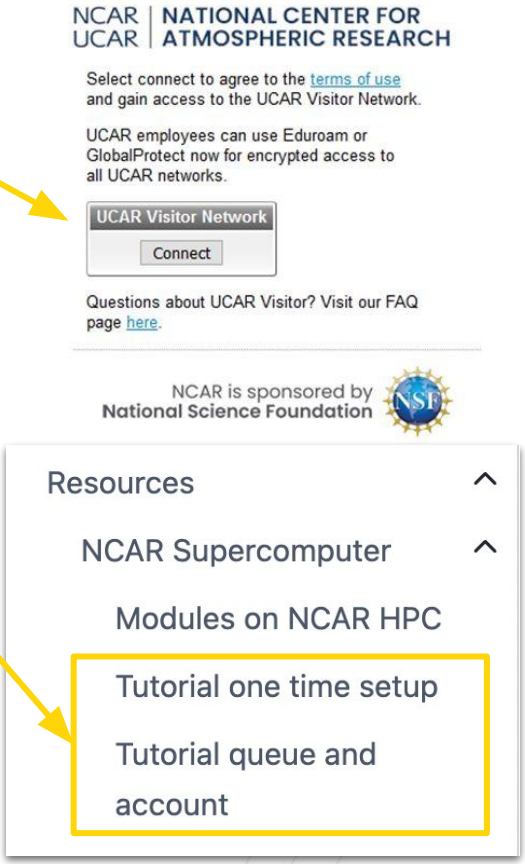
We all come from different backgrounds and are here to learn. There are no stupid questions! Please do not leave still confused and with your questions unanswered.

- Ask presenters during the Q&A after their lectures or at a break
- Ask helpers during lab sessions
- Ask clarification questions at daily check-ins
- Ask questions during the meet-an-expert lunch session
- Ask your peers
- If you are not sure whom to ask, ask one of us. We will connect you with someone on the team

Computer Information

- **Wireless access**
  - Use the UCAR Visitor wifi. It is an open, unencrypted network (require registration for access).
  - Use the Eduroam wireless only if it's already installed on your computer / set up with your home institution

- **Project account & Reservation Queues**
  - We have the **project account (UCGD0011)** as default in the .profile or .tschrc files we instruct you to use
  - To use the **reservation queue "tutorial"**, follow instructions in the Lab Materials
  - If you have problems using these or conflicts with other, existing project codes please let us know ASAP



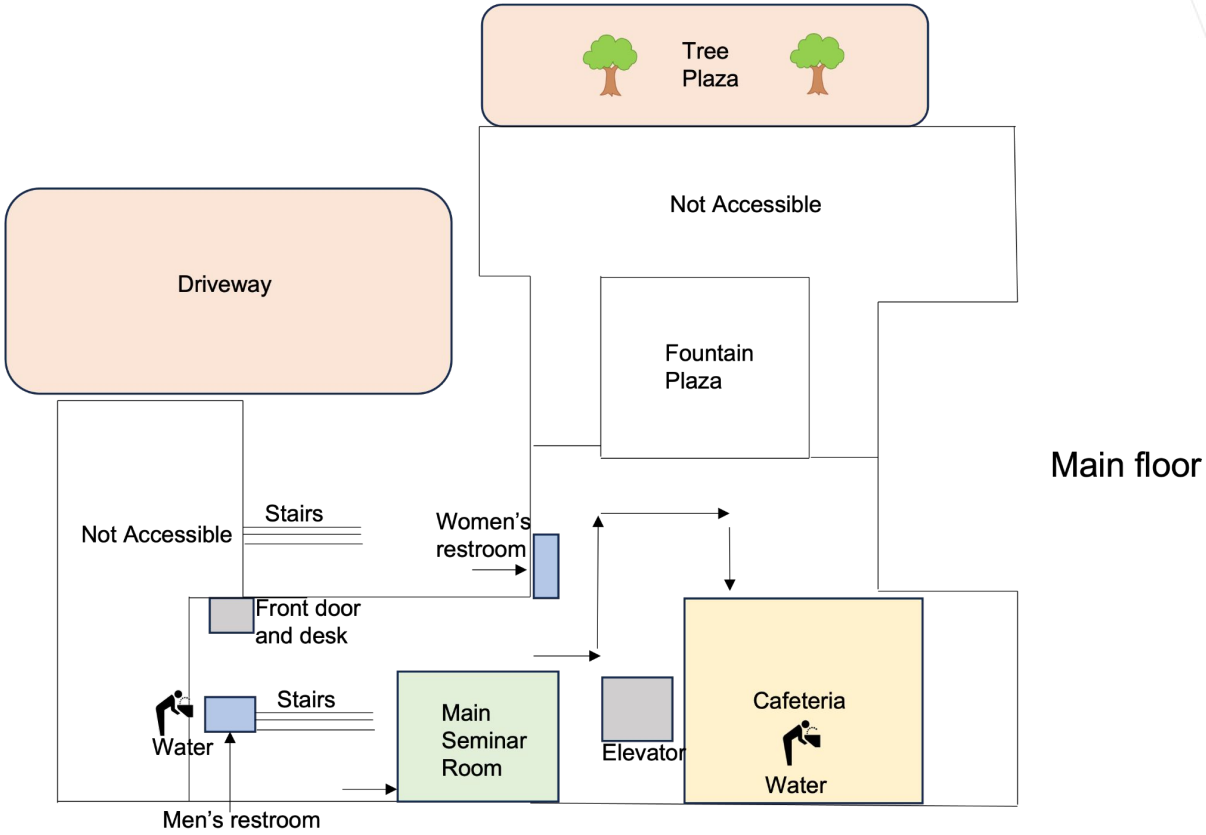
Welcome to the Mesa Laboratory

- Google Group: **clm-tutorial-participants@gmail.com**
  We have created a Google group for the 2026 CLM tutorial participants. Participants have been introducing themselves here. Once here you can start coordinating with other participants to socialize and network. (Auditors are welcome to join as well.)

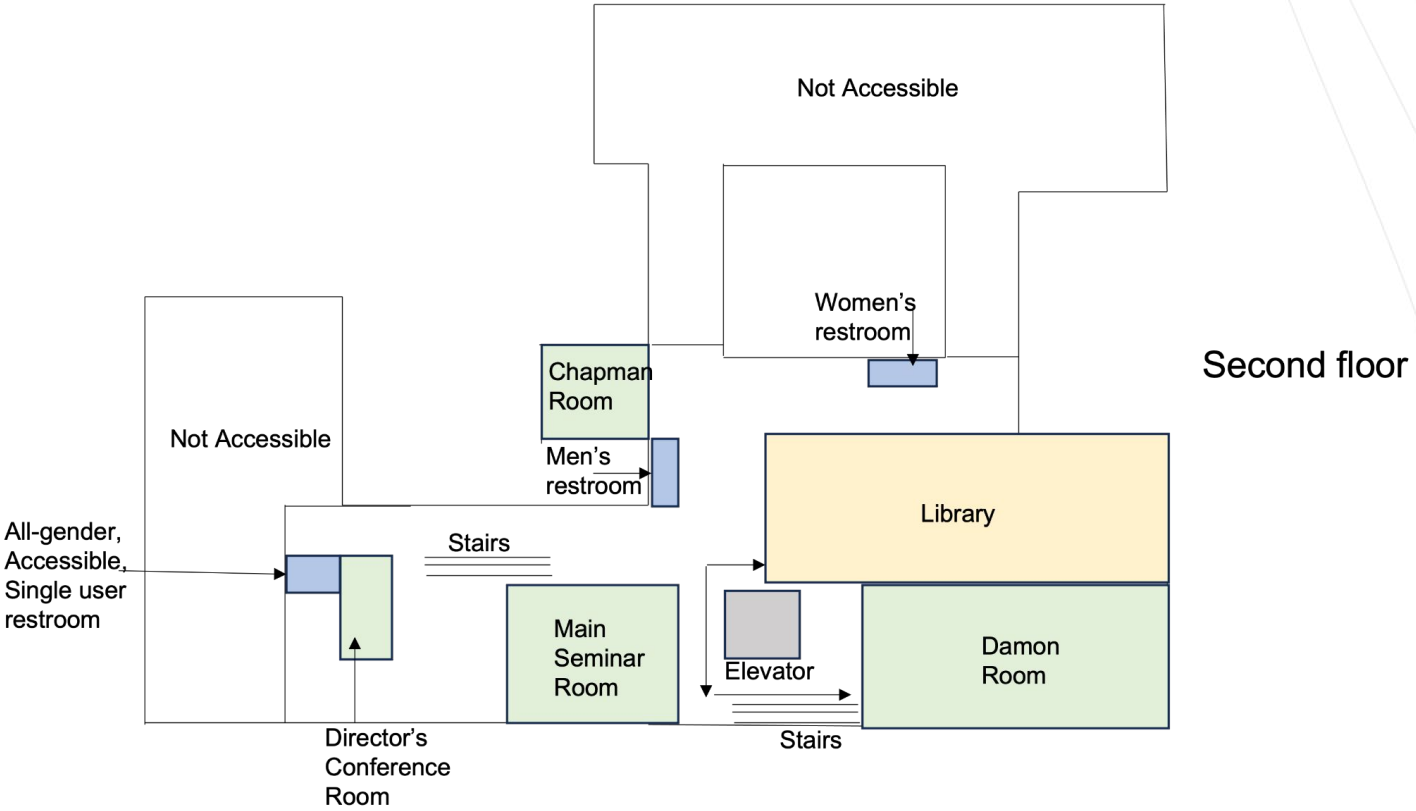
- Optional Tutorial Dinner
  Tuesday 6:00 @ Avanti. 1401 Pearl Street.

- Special CGD Cafe
  On Thursday, from 10:30am - 11:00 am, CGD staff , visitors, and guests from across NCAR will join us for a special CGD Cafe. Use this opportunity to meet with other staff members, ask questions, network etc. Staff will also join us for an exchange from 11-12.

Maps


Tree
Plaza
Not Accessible
Driveway
Fountain
Plaza
Main floor
Not Accessible
Stairs
Women's
restroom
Front door
and desk
Stairs
Water
Main
Seminar
Room
Elevator
Cafeteria
Water
Men's restroom

Maps


Not Accessible
Women's restroom
Chapman Room
Men's restroom
Not Accessible
All-gender, Accessible, Single user restroom
Stairs
Library
Main Seminar Room
Elevator
Damon Room
Director's Conference Room
Stairs
Second floor

Need a break? Quiet spaces

QUIET ROOM



Outdoor Seating



Walking Path



Check with our admin team for available rooms.



Questions?